

WHAT IS CLAIMED IS:

1. A high-strength high-conductive copper alloy excellent in fatigue and intermediate temperature characteristics comprising 0.05 to 1.0% by mass of Cr and 0.05 to 0.25% by mass of Zr with a balance of Cu and inevitable impurities,

the alloy comprising inclusion particles based on any one of Zr and a Cu-Zr alloy having a diameter of 0.1  $\mu\text{m}$  or more,

the proportion of the inclusion particles containing 10% or more of sulfur as one of the inevitable impurities being one particles/ $\text{mm}^2$ .

2. A high-strength high-conductive copper alloy excellent in fatigue and intermediate temperature characteristics comprising 0.05 to 1.0% by mass of Cr, 0.05 to 0.25% by mass of Zr and 0.05 to 2.0% by mass of Zn with a balance of Cu and inevitable impurities,

the alloy comprising inclusion particles based on any one of Zr and a Cu-Zr alloy having a diameter of 0.1  $\mu\text{m}$  or more,

the proportion of the inclusion particles containing 10% or more of sulfur as one of the inevitable impurities being one particles/ $\text{mm}^2$ .

3. A high-strength high-conductive copper alloy excellent in fatigue and intermediate temperature characteristics comprising 0.05 to 1.0% by mass of Cr and 0.05 to 0.25% by mass of Zr with a balance of Cu and inevitable impurities,

the alloy comprising inclusion particles based on any one of Zr and a Cu-Zr alloy having a diameter of 0.1  $\mu\text{m}$  or more,

the proportion of the inclusion particles containing sulfur as one of the inevitable impurities being 1,000 particles/ $\text{mm}^2$ .

4. A high-strength high-conductive copper alloy excellent in fatigue and intermediate temperature characteristics comprising 0.05 to 1.0% by mass of Cr, 0.05 to 0.25% by mass of Zr and 0.05 to 2.0% by mass of Zn with a balance of Cu and inevitable impurities,

the alloy comprising inclusion particles based on any one of Zr and a Cu-Zr alloy having a diameter of 0.1  $\mu\text{m}$  or more,

the proportion of the inclusion particles containing sulfur as one of the inevitable impurities being 1,000 particles/ $\text{mm}^2$ .